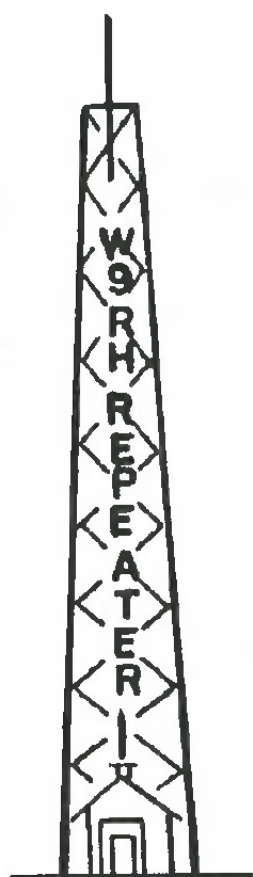


# MILWAUKEE AMATEURS

C L U B

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147.045+

OUR 75<sup>TH</sup> YEAR  
FROM  
SPARK <sup>TO</sup> SPACE

# AMATEUR RADIO

**T**his Brochure is designed for people interested in becoming Radio Amateurs, and to help them in identifying with Amateur Radio in its various phases. It also outlines the role of the Amateur Radio Club in its mission of assisting the student in becoming licensed, or to upgrade an existing license.

There are approximately 500,000 Radio Amateurs in the USA and another 1,000,000 throughout the world. In the USA the Amateur Radio Service is Federally licensed, and all aspirants must pass an FCC examination, administered by Ham Radio Volunteer Examiners. These examinations are held weekly throughout the US, by various organizations known as VE's (volunteer examiners) & VEC's, usually under the auspices of ham radio clubs.

Many means of communication are available to the Amateur Radio Operator: Telegraphy (CW), Voice (AM, FM, SSB), computers, keyboards, Amateur Television (ATV), fac-simile (FAX), and the use of Amateur satellites, put into orbit for us by NASA. Using a fixed-station relay transceiver, (Repeater), hams communicate with hand-held equipment, far beyond the range of the walkie-talkie.

Ham operators have a unique ability to assist local authorities, (police and disaster relief groups), using their "handi-talkies" with or without repeaters.

They also participate in local civic events, parades, bike-a-thons, and golf matches. The recent national disasters, floods, hurricanes, and earthquakes, have proved the worth of volunteer communications.

Opportunities for public service exist during participation in Armed-Services related operation, through MARS activities. MILITARY AFFILIATE RADIO SERVICE-(MARS) nets are organized

under the auspices of the Army, Navy, or Air Force, and provide the amateur with an ideal opportunity for training in disciplined communication service, for use in times of national disasters. These services operate outside normal ham bands under unique call signs, and provide clear-channel operation to all qualified operators. Training nets are operated at regular intervals (daily/weekly), at which time, drills are held in military procedure, message handling, and in the proper use of electronic equipment.

## MEETINGS

**T**he Milwaukee Radio Amateurs Club meets on the last Thursday of the month, in the Wauwatosa Savings Bank basement, at 7500 W. State St. in Wauwatosa. All interested parties are always welcome to join us. A new feature has been added to our monthly meetings. A short raffle is held after the formal program, and any or all attendees are encouraged to contribute items for sale-proceeds to the club. (Unsold items must be removed after the raffle ends, as the room is used for other organizations during the week).

## PROGRAMS

**T**echnical programs are featured, utilizing slides, videotapes, and artifacts to illustrate various topics. The speakers are usually members of the club, using their own equipment, experience, or employment as background material. Programs are usually informal, and discussions following the presentation are encouraged.

## NEWSLETTER

**T**he monthly newsletter, "Hamateur Chatter", is mailed to all members. This carries meeting information and news of club activities. It also reports important radio events throughout the state, and gives news of club members' activities. The club also maintains an informational telephone, no. 466-HAMS, available 24 hours a day, with late news of school and field day dates, and information in addition to that put out on the 147.045+, W9RH repeater.

## HISTORY

**T**he MRAC was founded 75 years ago, and has been continuously active throughout the intervening years. Its activities are being expanded to include items of interest to newly qualified operators. The club maintains weekly schedules on 28.4 MHz, at 8:45 on Friday evenings, and following that at 9:15 PM, on the W9RH repeater, 147.045+. This call sign belongs to the club, and was formerly assigned to one of the old timers in Milwaukee.

## FIELD DAY

**T**he club operates in the ARRL sponsored Field Day weekend every year. This annual event affords an opportunity for all hands to operate the equipment under field conditions, with emergency power and temporarily erected antennas. The intent of this exercise is to develop skills in meeting an emergency situation, and to communicate without access to commercial power, and under any or all weather conditions. The various operators attempt to contact as many stations as possible during the contest, while enjoying a camping weekend.

## RADIO SCHOOL

**T**he club conducts theory and code classes at its school, located at the Village at Manor Park (Methodist Manor), 3023 S. 84th St., in Milwaukee, with instruction conducted by the teaching staff. In addition to this all classes of license examinations are covered, with our VEC conducting regular testing sessions.

## COMMUNITY RELATIONS

**T**he Milwaukee Radio Amateurs Club maintains a file of amateur related literature in various libraries throughout the Milwaukee area, and is easily contacted through its 466-HAMS telephone line, the 147.045 + MHz repeater, or by completing the form on the next page and mailing it to:

M.R.A.C., P.O. Box 25707, Milwaukee, WI 53225

## INFORMATION REQUEST

Information will be sent promptly, please fill out request and mail to:

**Milwaukee Radio Amateurs' Club**  
**P.O. Box 25707**  
**Milwaukee, WI 53225**

PLEASE PRINT

\_\_\_\_\_  
Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
City State Zip

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Phone

- ☐ Please send information about membership,
- ☐ Please send information about your amateur radio classes.
- ☐ Please send information about amateur radio programs and demonstrations.



## AMATEUR RADIO LICENSE CLASSIFICATIONS

There are six classes of amateur radio licenses each carrying its own special requirements and privileges.

### NOVICE CLASS

Code Test - 5 wpm

Written Exam - Elementary theory and regulations.

Privileges - Restricted HF, VHF, and UHF frequencies

### NO CODE TECHNICIAN CLASS

Written Exam only - Elementary theory and regulations.

Privileges - Restricted VHF and UHF frequencies.

### TECHNICAL PLUS CLASS

Novice Class License plus Elementary Theory.

Privileges - Restricted HF, additional VHF and UHF.

### GENERAL CLASS

Code Test 13 wpm

Technician Plus License

Privileges - Expanded HF, VHF, and UHF frequencies.

### ADVANCED CLASS

General Class License plus Intermediate Theory Test.

Privileges - Expanded HF, VHF, and UHF frequencies.

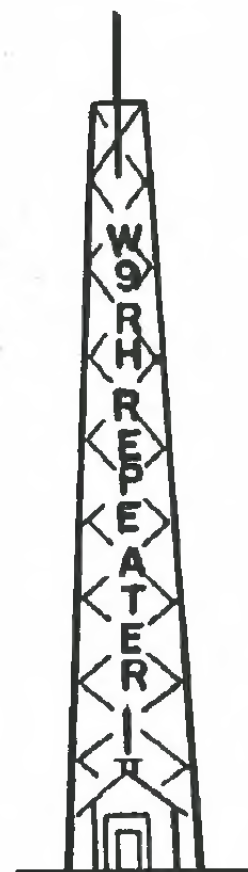
### EXTRA CLASS

Advanced Class License plus 20 wpm code test and the Advanced Technical Theory Test.

Privileges - All FCC Amateur License privileges.

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